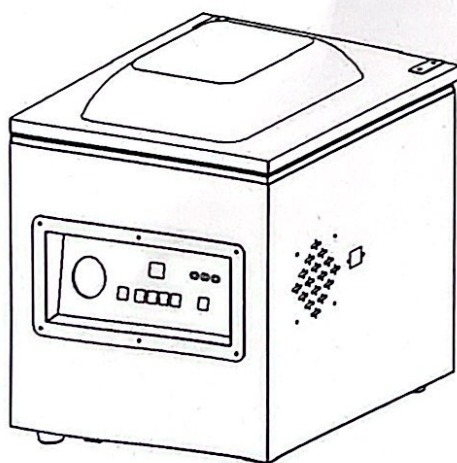


Vacuum Packaging Machine

Use and Maintenance Manual

DZ-400



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1. Use and features

This machine is mainly applied to seal composite film or aluminum foil composite film packaging materials. The solid, liquid, powder, paste and other properties of objects can be vacuum packed by this machine. After vacuum packaging ,products can be prevented oxidation and mildew, food can be kept fresh and prolong its shelf life,for some items,it can effectively reduce the appearance size, easy to transport and storage. It can be widely used in food, medicine, electronics, chemicals and other field, one of the best choice for factories, shops, service industry and so on.DZ-280 is controlled by a low voltage PCB,it is safe ,reliable, simple operation and easy maintenance. Vacuum chamber and the body is made of high quality stainless steel,with good sealing performance and nice appearance. Workers can set vacuum ,sealing temperature, sealing time, cooling time to accommodate different packaging materials and packaging requirements.

2. The main structure and principle

2.1. Main structure

Body,vacuum chamber,upper cover,electrical control system,heating system, vacuum pump, panel.

2.2. Principle

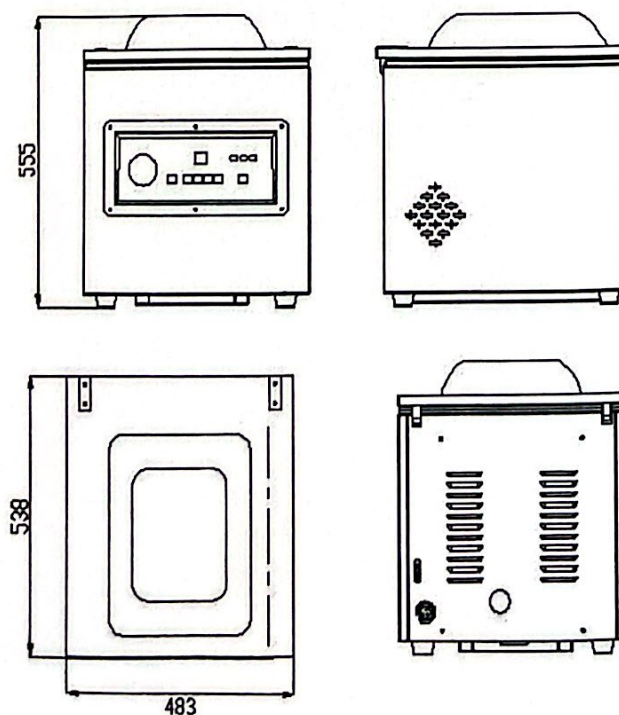
When the power is switched on, press down the upper cover, the limit switch will be touched, then solenoid valve and vacuum pump start to work. When vacuum reaches a predetermined value, the vacuum pump stop working, the vacuum chamber and the airbag are in the state of negative pressure.Now the air valve will be opened, the air goes into the airbag, the airbag swell and attach the heating device to the silicon rubber,meantime the heating wire is heating up to complete sealing. Valve open again, upper cover open automatically to complete the work.

3. Specification

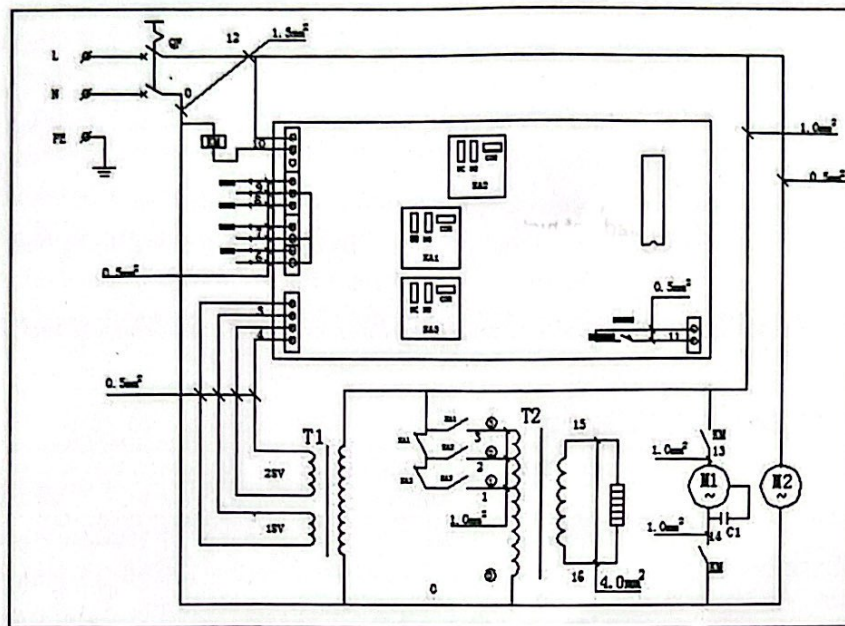
3.1. Specification

Voltage/power	Sealing size	Pump capacity	Chamber size	Dimension	Weight
110V 0.9KW	400*10mm	20 m ³ /h	435*420*75mm	538*483*555mm	≈50kg

3.2. Dimension drawing

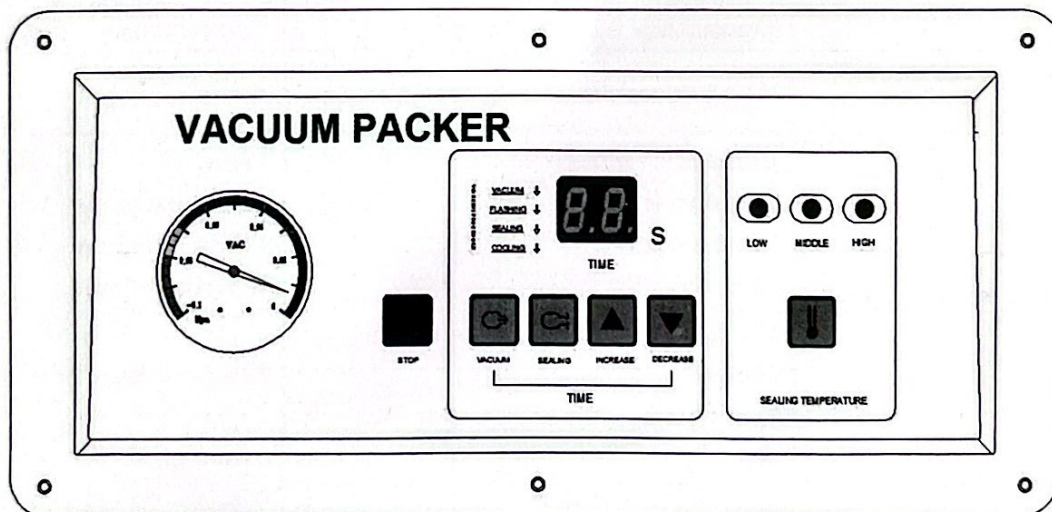


3.3. Circuit drawing



4. Operation

4.1. Control panel



4.2. Prepare

4.2.1. The machine should be placed horizontally, the room must be well ventilated, non corrosive gas and few of dust.

4.2.2. Access to power supply, and make sure the power supply adapt the machine voltage setting. The machine must be reliably grounded, ensure safety.

4.2.3. Before working, vacuum pump oil level should be 3/4 of view window. If the oil level less than 1/2 view window, you should fill the vacuum oil up to 3/4. Oil level too high or too low will affect the pump working and life time.

4.2.4. The client must set the heating time and temperature according to the thickness of the material. If you are not sure about the time and temperature setting, please test from low to high step by step, otherwise the heating element and teflon cloth will be burnt.

4.3. Operation

4.3.1. panel operation

4.3.1.1. turn on the power, the digital panel shows "--", machine is standing by.

4.3.1.2.press "VACUUM",vacuum led light turns on,press "▲" and "▼" to adjust the vacuum time(0-99s).

4.3.1.3.press "SEALING",flashing led light turns on,press "▲" and "▼" to adjust the inflation time(0-99s).(only available to the machine with gas insert function)

4.3.1.4.press "SEALING",sealing led light turns on,press "▲" and "▼" to adjust the sealing time.Noted,please start testing from low to high temperature(0.1-9.9s).

4.3.1.5.press "SEALING",cooling led light turns on,press "▲" and "▼" to adjust the cooling time.Noted,different material or thickness has differences in result.

4.3.1.6.all of the data above, once set, the computer will automatically save.

4.3.1.7.press temperature,every time you press the button,the indication light will be activated from low to middle to high.

4.3.2.if there is any emergency during the working,please press "STOP",the machine will stop working and open the upper cover.

5. Common faults and exclusion method

Failure	Cause	exclusion method
Can not vacuum	1.contactor is damaged 2.power is not linked 3.limit switch is damaged or didn't touch 4.valve can not open	1.change contactor 2.check power links 3.change or adjust the limit switch 4.check or replace the valve
Vacuum is not good enough	1.some connection is loose 2.air leaks in air bag or vacuum chamber 3.seal ring damaged 4.vacuum time is not long enough	1.check and change 2.check and change 3.change the seal ring 4.adjust the time
Upper cover can't open automatically	Valve is damaged	change
Can not seal	1.temperature setting is too low 2.transformer is damaged 3.PCB is damaged 3.bad connection	1.re-set 2.check and change 3.check and change 4.check and change
Bad sealing result	1.air leak in airbag or the seal valve is damaged 2.sealing temperature and time is not well matched 3.dust on the sealing bar 4.not enough vacuum time 5.teflon cloth is finished 6.heat element is finished	1.check or change the air bagg 2.adjust 3.clean up 4.increase the vacuum time 5.change the teflon 6.change the heat element
Smoke after sealing	①greasy dirt on the sealing bar ②sealing temperature and time over too much	①clean up ②adjust time and temperature
Program problem	①PCB is damaged ②PCB cable is loose	①check and change ②check and link again

6. Maintain and precaution

6.1. Maintain

6.1.1. Regularly check the vacuum pump oil level, if less than 1/2, must refill the vacuum oil (the general use of vacuum pump oil in compliance with SH0528-92 standards. Vacuum pump oil temperature using ISO-VG100 viscosity grade at 10 °C -40 °C, vacuum pump oil temperature using ISO-VG32 viscosity grade at 0 °C -10 °C.

6.1.2. It is suggested that the first work is full 150 hours to change the oil, after that every 500 working hours pls change the oil. Oil filter should be replaced also.

6.1.3. Regularly check the machine screw, if loose, immediately fastening. Check the rotation shaft, vacuum chamber spring activities parts is flexible, if there is any block, please add lubricating oil.

6.1.4. Check the heating element and teflon cloth from time to time, change the new parts at once when you find any problem.

6.2. Precaution

6.2.1. Must be grounded before using the machine, as this may lead to personal injury.

6.2.2. Read this manual and instructions before working.

6.2.3. When the machine has just completed work, sealing part is prohibited to touch or it may hurt you.

6.2.4. When the machine is ready to work, no hands or other objects placed on the sealing bar, otherwise you may damage or affect the machine work and hurt yourself.

6.2.5. When the machine is under installation and maintenance, please disconnect the main power supply to protect the personal safety

6.2.6. The machine is not used in a long time, you should cut off the main power supply and exhausted oil, clean the pump, refill new oil and storage in a dry place.

7. Spare kit

Name	Size	Quantity
Pump oil	250ml	2
Seal ring	1820mm	1
Heat element	450X10X0.15	2
Teflon	400X50	2
Oil hopper		1
manual		1

attention: please use the original accessories to ensure the machine performance and stability.